#7

SEQUENCE LISTING

<110> Abbott Laboratories
Lou, Sheng C.
Hunt, Jeffrey C.
Konrath, John G.
Qiu, Xiaoxing
Scheffel, James W.
Tyner, Joan D.

<120> MONOCLONAL ANTIBODIES TO HUMAN IMMUNODEFICIENCY VIRUS AND USES THEREOF

<130> 6755.US.01

<140> 09/731,126
<141> 2000-12-06

<160> 9

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 28
<212> PRT
<213> Human Immunodeficiency Virus

<400> 1
Cys Gln Ala Ala Met Gln Met Leu Lys Glu Thr Ile Asn Glu Glu Ala
1 5 10 15
Ala Glu Trp Asp Arg Val His Pro Val His Ala Gly
20 25

<210> 2
<211> 28
<212> PRT
<213> Human Immunodeficiency Virus

<400> 2
Cys Gln Gly Ala Leu Gln Val Leu Lys Glu Val Ile Asn Glu Glu Ala
1 5 10 15
Ala Asp Trp Asp Arg Ser His Pro Pro Val Val Gly
20 25

<210> 3
<211> 27
<212> PRT
<213> Human Immunodeficiency Virus

<400> 3
Cys Leu Asp Ile Arg Gln Gly Pro Lys Glu Pro Phe Arg Asp Tyr Val
1 5 10 15
Asp Arg Phe Tyr Lys Thr Leu Arg Ala Glu Gln

20 25

<210> 4
<211> 27
<212> PRT
<213> Human Immunodeficiency Virus

<400> 4
Cys Leu Asp Ile Lys Gln Gly Pro Lys Glu Pro Pro Arg Asp Tyr Val
1 5 10 15
Asp Arg Phe Tyr Lys Thr Leu Arg Ala Glu Gln
20 25

<210> 5
<211> 20
<212> PRT
<213> Human Immunodeficiency Virus

<400> 5
Cys Lys Thr Ile Leu Lys Ala Leu Gly Pro Ala Ala Thr Leu Glu Glu
1 5 10 15
Met Met Thr Ala
20

<210> 6
<211> 20
<212> PRT
<213> Human Immunodeficiency Virus

<400> 6
Cys Lys Gln Ile Leu Lys Ala Leu Gly Pro Gly Ala Thr Leu Glu Glu
1 5 10 15
Met Met Val Ala
20

<210> 7
<211> 232
<212> PRT
<213> Human Immunodeficiency Virus

<400> 7
Pro Val Val Pro Asn Ala Gln Gly Gln Met Ile His Gln Ala Leu Ser
1 5 10 15
Pro Arg Thr Leu Asn Ala Trp Val Lys Ala Val Glu Glu Lys Ala Phe
20 25 30
Asn Pro Glu Ile Ile Pro Met Phe Met Ala Leu Ser Glu Gly Ala Ile
35 40 45
Pro Tyr Asp Ile Asn Ile Met Leu Asn Ala Ile Gly Gly His Gln Gly
50 55 60
Ala Leu Gln Val Leu Lys Glu Val Ile Asn Glu Glu Ala Ala Asp Trp
65 70 75 80
Asp Arg Ser His Pro Pro Val Val Gly Pro Leu Pro Pro Gly Gln Ile
85 90 95

```
Arg Glu Pro Thr Gly Ser Asp Ile Ala Gly Thr Thr Ser Thr Gln Gln
            100                 105                 110
Glu Gln Val His Trp Ile Thr Arg Ala Asn His Pro Val Pro Val Gly
        115                 120                 125
Asp Ile Tyr Arg Lys Trp Ile Val Leu Gly Leu Asn Lys Met Val Lys
    130                 135                 140
Met Tyr Ser Pro Val Ser Ile Leu Asp Ile Lys Gln Gly Pro Lys Glu
145                 150                 155                 160
Pro Phe Arg Asp Tyr Val Asp Arg Phe Tyr Lys Thr Leu Arg Ala Glu
                165                 170                 175
Gln Ala Ile Gln Asp Val Lys Asn Trp Met Thr Glu Thr Leu Leu Val
            180                 185                 190
Gln Asn Ala Asn Pro Asp Cys Lys Gln Ile Leu Lys Ala Leu Gly Pro
        195                 200                 205
Gly Ala Thr Leu Glu Glu Met Met Val Ala Cys Gln Gly Val Gly Gly
    210                 215                 220
Pro Thr His Lys Ala Lys Leu Leu
225                 230
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<210> 8
<211> 231
<212> PRT
<213> Human Immunodeficiency Virus

<400> 8

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Pro Ile Val Gln Asn Ile Gln Gly Gln Met Val His Gln Ala Ile Ser
 1                  5                  10                  15
Pro Arg Thr Leu Asn Ala Trp Val Lys Val Val Glu Glu Lys Ala Phe
            20                  25                  30
Ser Pro Glu Val Ile Pro Met Phe Ser Ala Leu Ser Glu Gly Ala Thr
        35                  40                  45
Pro Gln Asp Leu Asn Thr Met Leu Asn Thr Val Gly Gly His Gln Ala
    50                  55                  60
Ala Met Gln Met Leu Lys Glu Thr Ile Asn Glu Glu Ala Ala Glu Trp
65                  70                  75                  80
Asp Arg Val His Pro Val His Ala Gly Pro Ile Ala Pro Gly Gln Met
                85                  90                  95
Arg Glu Pro Arg Gly Ser Asp Ile Ala Gly Thr Thr Ser Thr Leu Gln
            100                 105                 110
Glu Gln Ile Gly Trp Met Thr Asn Asn Pro Pro Ile Pro Val Gly Glu
        115                 120                 125
Ile Tyr Lys Arg Trp Ile Ile Leu Gly Leu Asn Lys Ile Val Arg Met
    130                 135                 140
Tyr Ser Pro Thr Ser Ile Leu Asp Ile Arg Gln Gly Pro Lys Glu Pro
145                 150                 155                 160
Phe Arg Asp Tyr Val Asp Arg Phe Tyr Lys Thr Leu Arg Ala Glu Gln
                165                 170                 175
Ala Ser Gln Glu Val Lys Asn Trp Met Thr Glu Thr Leu Leu Val Gln
            180                 185                 190
Asn Ala Asn Pro Asp Cys Lys Thr Ile Leu Lys Ala Leu Gly Pro Ala
        195                 200                 205
Ala Thr Leu Glu Glu Met Met Thr Ala Cys Gln Gly Val Gly Gly Pro
    210                 215                 220
Gly His Lys Ala Arg Val Leu
225                 230
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<210> 9
<211> 229
<212> PRT
<213> Human Immunodeficiency Virus

<400> 9

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Val Gln Gln Ala Gly Gly Asn Tyr Ile His Val Pro Leu Ser Pro Arg
 1               5                  10                  15
Thr Leu Asn Ala Trp Val Lys Leu Val Glu Glu Lys Lys Phe Gly Ala
            20                  25                  30
Glu Val Val Pro Gly Phe Gln Ala Leu Ser Glu Gly Cys Thr Pro Tyr
        35                  40                  45
Asp Ile Asn Gln Met Leu Asn Cys Val Gly Asp His Gln Ala Ala Met
    50                  55                  60
Gln Ile Ile Arg Glu Ile Ile Asn Glu Glu Ala Ala Asp Trp Asp Ala
65                  70                  75                  80
Gln His Pro Ile Pro Gly Pro Leu Pro Ala Gly Gln Leu Arg Asp Pro
                85                  90                  95
Arg Gly Ser Asp Ile Ala Gly Thr Thr Ser Thr Val Asp Glu Gln Ile
            100                 105                 110
Gln Trp Met Tyr Arg Gln Pro Asn Pro Val Pro Val Gly Asn Ile Tyr
        115                 120                 125
Arg Arg Trp Ile Gln Ile Gly Leu Gln Lys Cys Val Arg Met Tyr Asn
    130                 135                 140
Pro Thr Asn Ile Leu Asp Val Lys Gln Gly Pro Lys Glu Ser Phe Gln
145                 150                 155                 160
Ser Tyr Val Asp Arg Phe Tyr Lys Ser Leu Arg Ala Glu Gln Thr Asp
                165                 170                 175
Pro Ala Val Lys Asn Trp Met Thr Gln Thr Leu Leu Ile Gln Asn Ala
            180                 185                 190
Asn Pro Asp Cys Lys Leu Val Leu Lys Gly Leu Gly Met Asn Pro Thr
        195                 200                 205
Leu Glu Glu Met Leu Thr Ala Cys Gln Gly Val Gly Gly Pro Ser Gln
    210                 215                 220
Lys Ala Arg Leu Met
225
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